



COLORADO SPRINGS,
COLORADO

Recycle This Newsletter!

When you are through reading it, give it to a friend to read. You may interest a new ham or gain a new club member for the PPRAA.



March 1994



Pikes Peak Radio Amateur Association, Inc.
P. O. Box 16521
Colorado Springs, Colorado 80935

FIRST CLASS MAIL



Ø BEAT



P.P.R.A.A Officers and Directors

President--	Steve Westby	WB7VHR	1540 Keith Dr.	80916	570-1070
Vice-President--	Al Vrooman	NØCMW	1341 Diana Ln.	80909	473-1660
Secretary--	Ken Phillips	NØNKP	4850 Santiago Way	80917	574-6358
Treasurer--	Thomas McDaniel	NØNTX	4255 Shining Way	80916	570-1465
Board Member--	Ora Marie Rose	NØQJX	5214 Colter Lane	80915	591-5766
Board Member--	Malcolm Benton	KE9S	16386 Deby Drive	80921	488-2071
Board Member--	Liz Deutsch	NØTUK	4305 Ridgelane Dr.	80918	593-8352
Board Member--	Steve Schaarschmidt	KØCI	6155 Tuckerman Ln.	80918	598-3554
Past President--	Luci Stansberry	NØOUD	2630 E. Uintah	80918	636-1290
Ø-Beat Editor--	Ron Deutsch	NKØP	4305 Ridgelane Dr.	80918	593-8352

ZERO BEAT is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., PO Box 16521, Colorado Springs, Colorado 80935. For membership and subscription information see last page of this publication. The Pikes Peak Radio Amateur Association meets monthly on the second Wednesday of each month at the Disabled American Veterans, Chapter 26, 6860 Palmer Park Blvd. at 7PM.

EDITOR: Ron Deutsch, NKØP, 4305 Ridgelane Drive, Colorado Springs, Colorado 80918 (719)593-8352.

Deadline for submission of articles or ads is the 21st of each month. Submissions may be sent to the Editor or to the club PO box. Permission to reprint articles is granted provided credit is given to both the author and this publication.

ADVERTISING RATES: Full page \$48; half page \$24; quarter page \$12; business card \$6. These are monthly rates and are billed quarterly. Send your ad requests and payments to: PPRAA, PO Box 16521, Colorado Springs, Colorado 80935.



YL/OM Lunch Bunch

The Chowhounds had a most enjoyable luncheon on February 17, 1994. Several Hams joined us for the first time, along with a guest, and participated in our usual lively discussions. Welcome!

Our next luncheon will be held on March 17, 1994, at 12:00 noon at the Country Harvest Buffet on Platte Ave. Come join us and wear a "bit of green" since it will be St. Pat's day.

73s

Rosie Calaway, WAØMNL

The "NutraSweet-Cured" Ham

Reminder! This is the members' newsletter. Should you see, or hear, or read something you think would interest others, send it in!

VE Testing

Rick Brown - KDØSU

VE Testing is sponsored by the PPRAA on the 2nd Saturday of February, April, June, August, October and December. Testing takes place at 9:00 AM at:

Denver Technical College (DTC)
225 South Union
Colorado Springs

While we prefer pre registration, walk-ins are accepted on a space available basis. As a reminder to anyone wishing to take an examination you should bring the follow items.

1. \$5.75 (preferably a check made out to ARRL/VEC) for all exams other than elements 1A or 2.
2. Picture identification
3. A copy of your current amateur license as well as the signed original, or a copy of any examination credit you have.
4. Pen, pencils, and a calculator if you need one.

To pre register, or if you have any questions, please call me at 531-9423. Please do not call DTC, they only provide us the place, and do not have any of the information about testing.

Dits and Bits

Wanted:

Usable 201A or 301A radio tubes, also C-11.

Art Beaton, KFØVG, 593-1719.

Trade:

Orley woodstove (ornamental) valued at \$800 will trade for 2 meter base station. Icom 32AT \$275. Icom 2SAT \$175. KAØWIE, Fred, 591-0290

For Sale:

Kenwood 830S + extras.
Rosie, WAØMNL, 471-9965

Wanted:

A barrel for the PPRAA Swapfest Raffle drawing. Anyone want to build one? Anyone have one we could use? We will need it for May 21st. We can rent one so rest assured we will find a large enough barrel, so buy all the tickets you want, we will have room for them!
Rosie, WAØMNL, 471-9965

For Sale:

Tempo one SSB transceiver w/ both AC and DC supply. Multi-band HF vertical. AEA MBA-RO CW/ASCII/Baudot reader. Make offer.
Call Roger Lane (eves) 593-0967.

For Sale:

Heathkit Power Meters. HM-102, HF Power/SWR meter (200/2000 watts), HM-2102, VHF Power/SWR meter (25/250 watts), \$25 each, or \$40 for both.
Hewlett Packard. 412AR, Vacuum Tube Voltmeter. 405BR, DC Digital Voltmeter. 211AR Square Wave Generator. These are old, and big, but they do work as far as I can tell. \$10 each, or \$20 for all three. 5245L Frequency Counter. The nixie tubes do light up on this if that gives you any indication. \$10 or whatever you think it is worth for parts
Rick Brown, KDØSU, 531-9423

Swapfest info....

The two major prizes have been purchased for the PPRAA '94 Hamfest. They are:

Kenwood TS 50S XCVR Kenwood TH 22 HT

There will be hourly prizes also. I asked NØZFX, Gloria, if she would co-host the raffle and her answer was "I would be honored to help". Isn't that a marvelous attitude? NØWPA, Jeff and KBØFNM, Russ and NØQJX, John also volunteered to help.

The enthusiasm shown by the above mentioned along with the enthusiastic response from club members promises to make this a great Hamfest.

We'd appreciate door prize items if anyone has some to donate. Don't forget there will be a boutique table. Need more info call us or see us at the meeting. WAØMNL, Rosie, 471-9965

Thank You!

Bobbie Hickman wishes to thank everyone for the expression of sympathy shown to her and the family after the passing of Ivan, NØMIX.

The donations given to the DAV food pantry was so thoughtful. She asked that the donations given to the church be used to replenish their food pantry.

Bill Barrett Thanks PPRAA Members

I want to extend my thank you for giving me the opportunity to be your guest at your monthly meeting. As you probably noticed I was a little nervous during my presentation. I will admit to you that I am not a politician, first and foremost, I am a law enforcement officer.

During the break, several amateurs expressed the desire to become involved assisting the El Paso County Sheriff's Office. One amateur suggested if it could be possible to install an amateur radio station at the communications center, it would increase the eyes and ears for the Law Enforcement branch of El Paso County Sheriff's Office. What better way for you amateurs to assist with your knowledge of

communications in a pro-active stance in law enforcement.

The amateur radio station would be manned by volunteers from your organization, especially during weekends when most of the DUI's and other incidents occur. Mr. Mike Stansberry (KØTER) will be provided with an outline of the operation.

I will fully support such endeavor as Sheriff of El Paso County. Pro-active law enforcement is what I stand for. With your support we will implement that program.

Thank you again for the opportunity to be your guest. I had a fine time meeting and talking with all of you.

William Barrett

Republican Candidate

For Sheriff El Paso County

HAMFEST BOUTIQUE

It's time to start thinking hamfest. It will be here before you know it. Again we are asking our members and families to donate useful items, and crafts for our boutique table. All the proceeds from the table goes to our club. The first year we had the boutique it earned \$200.00 dollars for the club, thanks to the members help, & donations. Lets try to make it even better this year.

Contact either Faye KBØQI at 632-4574, or Connie KAØPXE at 634-1081. If you can help, donate items, or have any suggestions we would appreciate it very much. Items can be brought to the club meetings, or call for us to pickup, or where they can be dropped off.

73, Boutique committee

Telephone/Computer Ordinance Update

21-2-105: Unlawful use of telephone or computer:

A. It shall be unlawful for any person, by means or use of a telephone, to intentionally, knowingly, or recklessly disturb or tend to disturb the peace, quiet, or right of privacy of any person or family, or harass any person or family by:

1. Making a telephone call or causing the telephone to ring repeatedly whether or not a conversation ensues, with no purpose of legitimate conversation; or

2. Making a single or repeated communication t inconvenient hours or in offensively coarse, obscene or profane language; or

3. Attempting to extort money or other things of value; or

4. Threatening any physical harm or violence.

B. It shall be unlawful for any person by means of a computer, to intentionally disturb the peace, quiet or right of privacy of a person or family, or harass that person or family, by a single or repeated communication which causes an other to make a single or repeated telephone communication whether or not a conversation ensues, with no purpose of legitimate conversation, or at inconvenient hours or in offensively coarse, obscene, or profane language.

C. As in Subsection A2, or section B above, unless the context otherwise requires, "obscene" means a patently offensive description of ultimate sexual acts or solicitation to commit ultimate sexual acts, whether or not said ultimate sexual acts are normal or perverted, actual or simulated, including masturbation, cunnilingus, fellatio, anilingus, or excretory functions.

D. Ant act prohibited by subsections A and B above may be deemed to have occurred or to have been committed at the place at which the transmission was either made or received.

E. This section (unlawful use of the telephone or computer) shall not apply to any person acting in their capacity as a common carrier, electronic system provider, or computer system operator.

as of 1/24/94

For Sale:

Kenwood TR-2600A 2mtr HT w/many extras in exc. cond. \$250.

Collins 30L-1 linear w/ 4 extra 811A tubes \$550

Call George N8CIX 687-2610



PIKES PEAK

RADIO AMATEUR ASSOCIATION

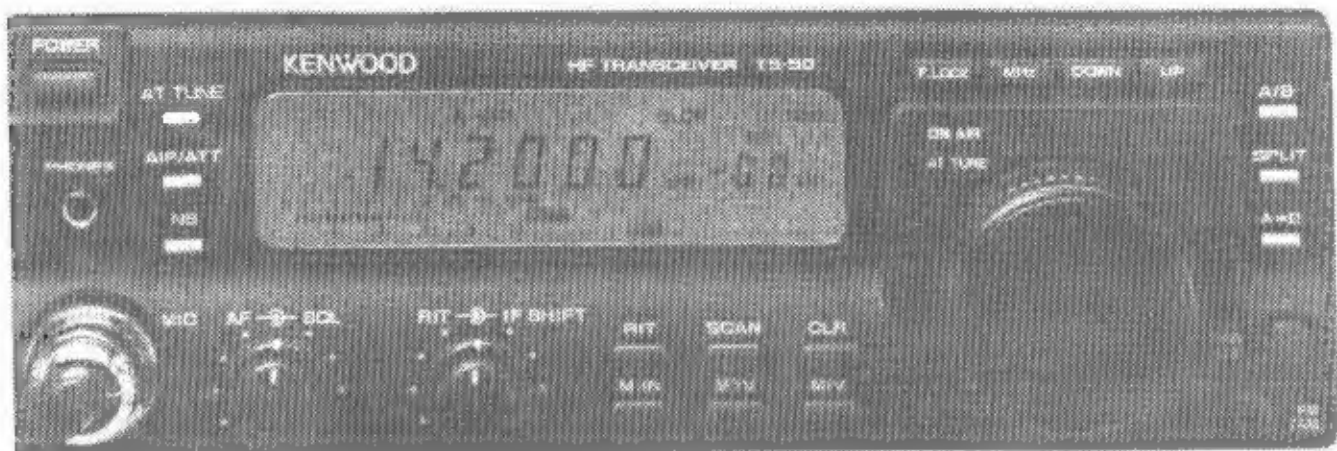
SWAPFEST

Saturday May 21, 1994 - Colorado Springs

Liberty High School - 720 Scarborough

Exit 151 off I-25.

08:00 - 15:00 (Vendors 06:00) VE Testing 09:00



Grand Prize Kenwood TS-50 HF Mobile

Second Prize Kenwood TH22A HT

Need not be present to win 2:00 PM drawing !!

Raffle Tickets \$1.00 or 6 for \$5.00

\$3.00 General Admission. Under age 15, free.

1st Table \$10.00 Additional tables \$8.00

Talk in on 146.97- and 146.52 simplex

Contact John Kramer NØVBM

(719) 550-1489

1765 Kimberly Place

Colorado Springs, CO 80915

March 1994

PIKES PEAK RADIO AMATEUR ASSOCIATION

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

		1 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	2 8:00pm SCTN 146.97	3 7:30pm CMRG Info Net 147.345 8:00pm SCTN 146.97	4 8:00pm SCTN 146.97	5 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 8:00pm SCTN 146.97
6 8:00am COLORADO ARES NETS 3928.0 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97	7 8:00pm SCTN 146.97	8 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	9 7:00pm PPRAA Meeting-- NOWPA NTS Traffic 8:00pm SCTN 146.97	10 CMRG Info Net 147.345 8:00pm SCTN 146.97	11 8:00pm SCTN 146.97	12 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 8:00pm SCTN 146.97
13 8:00am COLORADO ARES NETS 3928.0 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97	14 8:00pm SCTN 146.97	15 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	16 7:00pm MARC Meeting Woodland Park 8:00pm SCTN 146.97	17 7:00pm Upgrade Class DAV (AD0Z) 7:30pm CMRG Info Net 147.345 8:00pm SCTN 146.97	18 8:00pm SCTN 146.97	19 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 9:00am Pueblo VE Test (948-2291) 8:00pm SCTN 146.97
20 8:00am COLORADO ARES NETS 3928.0 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97	21 0-BEAT DEADLINE 7:00pm Upgrade Class DAV (AD0Z) 8:00pm SCTN 146.97	22 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	23 8:00pm SCTN 146.97	24 7:00pm Upgrade Class DAV (AD0Z) 7:30pm CMRG Info Net 147.345 8:00pm SCTN 146.97	25 8:00pm SCTN 146.97	26 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 8:00pm SCTN 146.97
27 8:00am COLORADO ARES NETS 3928.0 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97	28 7:00pm Upgrade Class DAV (AD0Z) 8:00pm SCTN 146.97	29 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	30 7:30pm CMRG Info Net 147.345 8:00pm SCTN 146.97	31 7:00pm Upgrade Class DAV (AD0Z) 8:00pm SCTN 146.97		

February

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April 1994

PIKES PEAK RADIO AMATEUR ASSOCIATION

SUNDAY

MONDAY

TUESDAY

WEDNESDAY

THURSDAY

FRIDAY

SATURDAY

						1 8:00pm SCTN 146.97	2 LARC/Fest Boulder Co Fairgrounds 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 8:00pm SCTN 146.97
3 8:00am COLORADO ARES NETS 3928.0 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97	4 7:00pm Upgrade Class DAV (AD0Z) 8:00pm SCTN 146.97	5 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	6 8:00pm SCTN 146.97	7 7:00pm Upgrade Class DAV (AD0Z) 7:30pm CMRG Info Net 147.345 8:00pm SCTN 146.97	8 8:00pm SCTN 146.97	9 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 9:00am VJ Testing (KD08U) 8:00pm SCTN 146.97	
10 8:00am COLORADO ARES NETS 3928.0 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97	11 8:00pm SCTN 146.97	12 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	13 7:00pm PPRAA Meeting Mike Silva--Tornados 8:00pm SCTN 146.97	14 CMRG Info Net 147.345 8:00pm SCTN 146.97	15 8:00pm SCTN 146.97	16 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 8:00pm SCTN 146.97	
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24 8:00am COLORADO ARES NETS 3928.0 6:30pm RACES HF NET 3990.5 8:00pm SCTN 146.97	25 8:00pm SCTN 146.97	26 7:00pm ARES NET 146.97 7:30pm RACES NET 146.97 8:00pm SCTN 146.97	27 8:00pm SCTN 146.97	28 7:30pm CMRG Info Net 147.345 8:00pm SCTN 146.97	29 8:00pm SCTN 146.97	30 7:00am Village Inn Breakfast 7:30am Breakfast Country Kitchen Widefield (W2TJO) 8:00pm SCTN 146.97	

March

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May

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29	30	31				

MONTHLY EVENT CALENDAR

2/21/1994

Following is a list of major Ham Radio items from the estate of the late Ivan Hickman, NØMIX. Mrs. Hickman wishes to place all on sale to the highest bidder. Bids should be sent, in writing, to Board Member, Ora M. Rose, NØQJX at 5214 Colter Lane, Colo. Springs, CO 80915. Final date for receipt of bids is 26 March 1994. MAIL ONLY please.

Item No.	Description
1.	Tower, Rhon G-10, 4 sections, house bracket, rotator shelf, 2 10-ft booms & guy cables, turnbuckles, etc. Lower sec set in concrete base. (saw-off)
2.	2-mtr 5/8 wave vertical antenna (on tower)
3.	3-element multi-band HF antenna, brand unknown (on tower)
4.	Ham-M Rotator (or TR-4A) w/cables, control, etc (on tower)
5.	HF wire doublet w/ladder line (tower)
6.	-50-ft x2 RG-8 type coax cable (tower)
7.	Hustler 4BTV HF multiband vertical antenna w/manual & -60-ft RG-8-type coax cable (on roof)
8.	Yaesu FT-101B SSB Transceiver, 10-160 mtrs w/manual, mic, etc.
9.	Astron RS-10A Power Supply, 13.8V @ 10A
10.	Triplite Power Supply, 13.8V @ 4.5A
11.	Icom IC-02AT Handi-Talkie, 2-mtrs (minus battery pack)
12.	Astatic D-104 Chrome Desk Microphon (a real classic!)
13.	Realistic HTX-100 10-mtr SSB/CW Transceiver
14.	4-xtal QRP rig (kit)
15.	1992 ARRL Handbook
16.	Micronta multimeter, Radio Shack 22-211
17.	Howes digital frequency display w/manual, cabinet, PMB-4 BCD programmable matrix board (kit, partially compl)
18.	Micronta field strength/SWR Tester RS 21-523
19.	Kenwood TM-221 2-mtr transceiver w/TT mic.
20.	MFJ 901B "versa-tuner" ant tuner

21.	MFJ-941D "versa-tuner" ant tuner
22.	Ramsey FX146 PLL-synth FM transceiver 140-180 MHz, digital dial, with manual
23.	EICO 717 Electronic Keyer
24.	Hamkey CW-7 Electronic Keyer
25.	Ramsey FX146 PLL-synth FM transceiver, 140-180 MHz
26.	Kantronics KPC-3 Terminal Net Controller
27.	Heathkit HD-1416 Code Oscillator
28.	5-position coax antenna switch (Commercial)
29.	5-position coax antenna switch (Home brew)
30.	Ameco AC-1 HF (tube) xtal-controlled QRP xmitter w/coils & 11 xtals
31.	Heathkit 50-ohm "antenna" dummy load
32.	Heil HM-5 desk microphone w/PTT

Amateur General Class Upgrade Classes

The PPRAA education team will be conducting classes for Amateur General Class upgrades beginning Thursday, March 17 through April 7 beginning at 7PM. The class will be held each Monday and Thursday for a period of four weeks at the Disabled American Veteran's Association, 6880 East Palmer Park Blvd. The exact course dates are: March 17, 21, 24, 28, 31 and April 4 and 7. The class will test during the regularly scheduled VE April test session on April 9.

The course will consist of the General Class theory elements and 13 WPM code practice sessions. Pre-requisites for the class are a thorough understanding of the Novice and Technician amateur radio theory elements and a 5 word per minute copy capability of the entire International Morse Code character set. The course will use the current ARRL General Class text book. The class is a continuation of the theory and code elements presented in the Novice and Technician courses given in the fall. Individuals interested in upgrading need not have taken the fall classes; however, all parties interested in this class should obtain the pre-requisites prior to attending the first class.

Contact: Frank McNally, KFØWF, at 596-8733 or Allen Bailey, ADØZ, at 597-8514

General Meeting February 9, 1993

Treasurers Report
Previous Balance 1749.37
Income 675.00
Expenses 1731.75
New Balance 692.62

The meeting was called to order at 7:00 PM by Steve WB7VHR. The treasurers report was submitted with an explanation of increased expenses this month going to pay for the swapfest prizes. The minutes were approved.

VE Testing chairman, Rick Brown, KD0SU, reminded us the FCC has changed the application for testing forms. Do not use any old forms you may have. Contact Rick for new forms.

Interference Chairman, Bill Petty, N0NJX has received five reports of interference. Some of which are intermittent. Lots of luck Bill you have your work cut out for you.

CCARC representative Oak, K0ROL will represent us in the April meeting.

ARES representative Mike, K0TER has new call-up rosters for ARES members. We will support the walk for children again this year. Contact Luci N0OUD to participate.

New Business: Ø *Beat* editor, Ron NK0P, recommended raising the rate for associate members to \$12.00 to help defray the cost of publishing Ø *Beat*. The motion was made and approved by the membership.

Hammy was awarded to Ron in recognition of his continuing work as editor of Ø *Beat*.

Swapfest chairman Harv, WA3EIB says the swapfest is progressing well. We will have a boutique table. Give Harv a call if you would like to help or donate to the table.

The program was given by Nick Powell NH6ON regarding forecasting space storms and how it effects HF propagation in space, and with space craft transmissions. The March program will be in traffic handling.

*Submitted by Ken N0NKP
Club Secretary*

Board Meeting February 14, 1994

The meeting was called to order at the QTH of Ron & Liz at 19:00. The following members attended. Steve WB7VHR, Al N0CMW, Tom N0NTX, Ken N0NKP, Ora N0QJX, Ron NK0P, Liz N0TUK, Luci N0OUD, and Steve N0CI. With Malcom KE9S, cross-banding in by telephone. The next meeting will be at 19:00 at the QTH of Ken N0NKP on the 14th of March.

The board approved \$119.70 for 6 video tapes about ham radio, packet radio, amateur satellite, contesting, DX'ing, and ham horizons. Al Craig will hold these tapes with others owned by the club. The education committee has requested training tapes. Tom, will contact Al, AD0Z to discover their needs.

The motion was passed to pay membership in the Amateur Radio News Service for the next three years. (\$30.00)

The Institute of Managing Accountants, (a public service club) will be contacted to ask them to audit our books.

The club will sponsor sales of coffee and rolls the morning of the swap meet with the concessionaire taking over later in the morning to provide sandwiches and such. If you would like to help contact Luci N0OUD.

The Annual picnic will feature the same menu as last year. The grand prize will be a Radio Shack HT202.

*Submitted by Ken N0NKP
Club Secretary*



WANT TO BUY SOME HAM GEAR? HE SAYS HE'S NO LONGER INTERESTED IN AMATEUR RADIO AND WANTS TO LIQUIDATE HIS ASSETS.

Prunella's Corner

Greetings to all PPRAA members. I hope you have all been well during the past month. Thanks for your support of the DAV food pantry. Every little bit helps. My students told me of a rumor circulating. The rumor is that the Human Persons' USDA Commodity Program is being cut back and may be completely eliminated by October. If this rumor is true, it means that more human people will be requesting food from the DAV food pantry. Now, I realize that I am not schooled in the art and science of logic. However, I have come to what I think is a logical conclusion. That conclusion is that the DAV food pantry is likely to need an increased amount of food to meet the needs of the human persons who need the food.

I have a question for all PPRAA members. Is any member familiar with the poem, "The Elephant Who Tried to Use the Telephant"? If anyone knows anything about this poem, I would appreciate it if you would contact the human person by the name of Liz Deutsch. She is a friend of mine.

Good bye until next month.

Prunella

FCC Form 610

Rick Brown - KDØSU

There is a new FCC Form 610 being distributed. This new form, dated November 1993, is the only form the FCC will now accept for new applications, renewals, change of address, etc. If You have any of the older forms I recommend you dispose of them immediately so they are not accidentally used, thereby causing a delay in any application.

I also recommend everyone check the expiration date of their license. There has been a five year period when no one has had to renew licenses. If you haven't had a change to your license in the last few years it would be very easy to forget when it actually expires. Don't be caught short. Your renewal should be sent to the FCC not

more than 90 days prior to the expiration date.

When we receive enough forms from the FCC I will be sure to give a stock to the club secretary. Also, Centennial Electronics has asked me for some forms, so I will take a supply to them as well.

Woodland Park VE Testing

There will be a VE test session in Woodland Park March 19th at 0900. Contact the following for more information :

Pat Stewart, NXØG
550-2942 Days
687-0981 1 until 8pm local
or
George Hinds, N8CIX
687-2610

HAMFEST BOUTIQUE

It's time to start thinking hamfest. It will be here before you know it. Again we are asking our members and families to donate useful items, and crafts for our boutique table. All the proceeds from the table goes to our club. The first year we had the boutique it earned \$200.00 dollars for the club, thanks to the members help, & donations. Lets try to make it even better this year.

Contact either Faye KBØQI at 632-4574, or Connie KAØPXE at 634-1081. If you can help, donate items, or have any suggestions we would appreciate it very much. Items can be brought to the club meetings, or call for us to pickup, or where they can be dropped off.

73, Boutique committee

Late Dits...

Wanted:

Collins 51J3 (R388) or 51J4 Receiver w/speaker in good operating condition. Contact:
J Thomas 1130 Pleasant View Lane, RR3
Colorado Springs, CO. 80921
(719) 481-4564
(4th ring answering machine)

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633-4666

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Florence, Colorado 81226
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